\[
\frac{1385 \text{ Btu/h}}{1000 \text{ scfm}} \quad * \quad \bar{V}_s
\]

and increase \( \dot{E}_c^k(T) \) by,

\[
\frac{406 \text{ W}}{1000 \text{ scfm}} \quad * \quad \bar{V}_s
\]